Appendix table 7-8

Correct answers to trend factual knowledge of science questions, by respondent characteristic: 1992–2010
(Average percent correct)

Characteristic	1992 (n = 1,995)	1995 (n = 2,006)	1997 (n = 2,000)	1999 (n = 1,882)	2001 (n = 1,574)	2006 (n = 1,864)	2008 (n =2,021)	2010 (n = 1,932)
Sex								
Male	64	65	66	66	69	69	68	67
Female	55	55	55	57	59	60	60	59
Formal education								
<high school<="" td=""><td>44</td><td>44</td><td>43</td><td>44</td><td>45</td><td>44</td><td>43</td><td>42</td></high>	44	44	43	44	45	44	43	42
High school graduate	59	59	60	62	62	62	63	60
Baccalaureate	73	68	75	77	80	74	77	78
Graduate/professional	80	77	80	83	80	82	81	80
Science/mathematics education ^a								
Low	52	52	51	53	55	56	57	5
Middle	66	68	66	71	72	69	70	68
High	79	80	83	82	84	82	82	8
Family income (quartile)								
Тор	NA	NA	NA	NA	NA	71	74	7
Second	NA	NA	NA	NA	NA	69	69	69
Third	NA	NA	NA	NA	NA	65	63	6
Bottom	NA	NA	NA	NA	NA	56	56	5
Age (years)								
18–24	59	63	64	65	66	68	67	64
25–34	64	64	63	65	68	64	67	6
35–44	65	64	66	66	66	67	63	6
45–54	61	62	61	64	68	68	67	6
55–64	53	52	57	58	61	64	65	6
≥65	47	47	45	46	49	53	54	54
Verbal ability ^b								
0–4	NA	NA	NA	NA	NA	48	47	46
5	NA	NA	NA	NA	NA	60	58	55
6	NA	NA	NA	NA	NA	66	63	63
7	NA	NA	NA	NA	NA	70	73	67
8–10	NA	NA	NA	NA	NA	77	80	80

NA = not available, question not asked

NOTES: Percentage of nine questions in trend factual knowledge of science scale answered correctly. "Don't know" responses and refusals to respond count as incorrect. Table includes all years for which data collected. Questions in trend factual knowledge of science scale listed below:

- The center of the Earth is very hot. (True)
- All radioactivity is man-made. (False)
- It is the father's gene that decides whether the baby is a boy or a girl. (True) Or (in 2008) It is the mother's gene that decides whether the baby is a boy or a girl. (False) (Split ballot in 2008; 1,251 survey respondents asked about "father's gene"; 254 survey respondents asked about "mother's gene.")
- Lasers work by focusing sound waves. (False)
- Electrons are smaller than atoms. (True)
- · Antibiotics kill viruses as well as bacteria. (False)
- The continents on which we live have been moving their locations for millions of years and will continue to move in the future. (True)
- Does the Earth go around the Sun, or does the Sun go around the Earth? (Earth around Sun)
- · How long does it take for the Earth to go around the Sun? (1 year) (Asked only if respondent answered correctly that Earth goes around Sun.)

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Public Attitudes Toward and Understanding of Science and Technology (1992–2001); and University of Chicago, National Opinion Research Center, General Social Survey (2006–10).

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 $^{^{}a}$ Low = \leq 5 high school and college science/math courses; middle = 6–8 courses; high = \geq 9 courses.

bMeasure based on correct responses to a 10-item, multiple-choice test of vocabulary knowledge. Categories represent number of correct responses.